Monitoring Data Record

Project Title: U-2307AD COE Action ID: 200031274
Stream Name: UT to Miller Branch DWQ Numbers: 000914 and 001587
City, County and other Location Information: Intersection of East Side Thoroughfare and Tate Boulevard in Hickory (Catawba Co.)
Date Construction Completed: July 2003 Monitoring Year: (1) of 3
Ecoregion: 8 digit HUC unit: 03050101
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 434' Urban or Rural: Urban Watershed Size:
Monitoring DATA collected by: M. Green, D. Jenkins Date: 4/27/05
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Rd. Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address:
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level (1) ~~2~~ ~~3~~
Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Permit States: Stability of the natural channel that is being relocated will be monitored for a period of 3 years or at least two bankfull flow events following completion of the channel relocation. Monitoring will include photos, plant survival, and channel stability analysis.

Section 1. PHOTO REFERENCE SITES
(Monitoring at all levels must complete this section)

Attach site map showing the location and angle of all reference photos with a site designation (name, number, letter, etc.) assigned to each reference photo location. Photos should be provided for all structures and cross section locations, should show both banks and include an upstream and downstream view. Photos taken to document physical stability should be taken in winter. Photos taken to document vegetation should be taken in summer (at representative locations). Attach photos and a description of each reference photo or location. We recommend the use of a photo identification board in each photo to identify location.

Total number of reference photo locations at this site: 4 reference points, 2 photos at each

Dates reference photos have been taken at this site: 4/27/05

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference:

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL
Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: Bareroot seedlings noted on or surrounding the streambank consisted of redbud, river birch, poplar, black willow and dogwood.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The pools below a few of the crossvanes are eroding. According to the Assistant DEO, these pools will be armored with rock to prevent this erosion. There is some minor erosion on the slope above the stream coming from a drainage pipe on the road project as noted in photo 9. RE Field Operations Engineer has been notified of this issue. The rest of the stream is stabilized at this time.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

NOTE: Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

UT to Miller Branch

Photo 1

Photo 2

Photo 3

Photo 4

Photo 5

Photo 6

Year 1 – April 2005

UT to Miller Branch

Photo 7

Photo 8

Photo 9 (slope erosion)